Constitution and Bylaws of the North Carolina State University Horticultural Science Club (2002 Revision)

Article I

Name

 The name of this organization shall be the Student Horticultural Club of North Carolina State University.

Article II Objectives

(1) The objectives of the Student Horticultural Science Club are to stimulate and encourage student interest in the field of Horticultural Science, to foster educational and recreational activities, and to encourage student participation in extracurricular activities.

Article III Membership

- Any student having an interest in the field of horticulture is eligible for membership. The spouse of any married member is also eligible.
- (2) The requirement of semester dues or lack thereof shall be at the discretion of the executive council for that semester.
- (3) The executive committee shall interpret questions concerning membership and eligibility for club funding.

Article IV

Officers

- The officers shall consist of a president, vice-president, secretary, treasurer, and two agri-life council representatives.
- (2) The president shall be elected to a one-year term beginning in the fall. The treasurer shall be elected to a one-year term beginning in the spring. The secretary and vice-president shall be elected for semester terms, and each agri-life council representative shall be elected to a one-year term, one beginning in the spring
- (3) The executive committee shall consist of the officers listed in Article IV, 1. Committee chairpersons may attend executive council meetings at the president's discretion. The executive committee will meet before each regular club meeting and/or at the discretion of the president.

(4-a) The president shall preside at all the meetings of the club, and shall represent the club at the agri-life council meetings. The president shall furnish all committee chairpersons with notice of their appointment, names of their committee members, and all material pertinent to the committee. The president shall also preside at the executive committee meetings.

(4-b) The vice-president shall preside at all meetings of the club in the absence of the president. The vicepresident shall also serve as chairperson of the program committee (i.e. speakers, refreshments).

(4-c) The secretary shall keep records of attendance at all meetings and projects of the club. The secretary shall keep a record of the name and address of each active, inactive, and honorary member. At each meeting, the secretary shall read the minutes of the previous meeting, pass around a roll, and a sign up sheet for club activities when necessary. The secretary shall also keep permanent records of club activities (i.e. past minutes) up to date and on file in the clubroom, and post a copy of the current minutes in the club room.

(4-d) The treasurer shall collect all assessments and make all disbursements. The treasurer shall make a report of the financial condition of the club at all regular meetings. With the assistance of the executive committee, the treasurer shall prepare a budget each semester for the upcoming year. The treasurer shall be responsible for keeping subscriptions on club-ordered magazines current. The one-year treasurer term shall begin the first of the fiscal year (January to December).

Article V Meetings

Regularly scheduled meetings shall be held on Mondays or when class schedules allow to facilitate the attendance of members. Meetings shall be held at least twice a month during the school year except when the club decides that a meeting would not be appropriate.

Article VI

Advisors

- The club shall have one continuing faculty advisor from the Horticultural Science Department faculty. This advisor shall be available to the club for any needed guidance.
- (2) Two rotating advisors shall be chosen from the Horticultural Science Department faculty.
- (3) Each shall serve one-year terms, one beginning in the fall and one beginning in the spring.
- (4) The rotating advisors shall not serve three consecutive one-year terms.
- (5) The job of the rotating club advisors is to work closely with club members and officers through meetings and informal interaction to provide input, suggestions, and guidance.
- (6) If the faculty advisor is unable to complete a term, an election will be held for a new advisor at the next regular club meeting.

Article VII

Elections

(1-a) The executive committee shall prepare a list of nominations four meetings before the end of the semester, consisting of no less than three nominations for each office. Nominations will be made for president, vice-president, secretary, and one of the agri-life council positions. The nominations for treasurer will be made at the end of the fall semester. Nominations for the faculty advisor shall be made only at the end of the spring semester.

(1-b) The club secretary must notify all nominees within one week of their nominations.

- (2) At the second meeting from the end of the semester, nominations from the executive committee will be presented to the club. At this time, nominations and declinations form the floor will be accepted.
- (3) Elections shall be held at the last meeting of the semester using ballots previously prepared by the secretary. No new nominees will be accepted unless unsuccessful candidates for another office.
- (4) In case no candidate receives a majority, the two highest candidates shall enter a runoff election. The candidate with the most votes shall be declared the winner.
- (5-a) All officers may succeed themselves only once in the same office.

(5-b) Newly elected officers shall assume their duties at the last meeting of the semester in which they are elected.

Article VIII

Committees

(1) Committee chairpersons shall be appointed by the club president unless otherwise specified. Committee chairs shall serve a one-semester term. They shall be responsible for keeping the file on their committee up to date with pertinent information. The chair shall periodically report to the executive committee as to their committee's progress.

(2) The following is a suggested listing of possible committees, each with its own appointed committee chair: Christmas banquet, photography, publicity, service project, spring banquet, travel, yearbook, clothing, fairgrounds garden, and fundraising.

(3-a)The Christmas banquet committee shall be responsible for finding and reserving a place for the party. They shall decide the menu, charges and the date of the party.

(3-b) The photography committee shall be responsible for supplying pictures for the yearbook.

(3-c) The publicity committee shall be responsible for displaying meeting signs and distributing flyers. They shall work with other committee chairpersons in publicizing each activity. They shall be responsible for getting ads drawn and submitted to the local papers. They shall be responsible for notifying radio stations in advance of projects requiring such publicity.

(3-d) The Service Project committee shall be responsible for finding a community service project that meets with the approval of the club. They are responsible for delegating duties, finding materials, and seeing that the project is carried out successfully. (3-e) The spring banquet committee shall be responsible for establishing the date of, and reserving the site for the annual spring banquet, They shall be responsible for sending invitations, collecting money, preparing the program, and making sure all skits and presentations are ready.

(3-f) The travel committee shall be responsible for determining prices and feasibility of different modes of travel for each club trip. Their job will be to cut unnecessary travel expenses. The committee chairperson shall keep the club informed of committee findings. Final decisions on modes of travel will be made by the club, based on committee recommendations.

(3-g) The yearbook committee shall be responsible for seeing that all committee chairpersons submit articles for the yearbook. They shall be responsible for yearbook distribution at the annual spring banquet.
(3-h) The clothing committee shall facilitate the acquisition of t-shirts, sweatshirts, and hats. The chair shall be the liaison between the screen printer and embroiderer, and shall be in charge of the annual T-shirt design contest. The chair is responsible for working with the executive committee in selecting T-shirt color, and ensuring that all necessary payments are made.

(3-i) The fundraising committee shall be responsible for compiling ideas and methods for raising funds, for the benefit of club activities and scholarships. This committee shall work in conjunction with all committees needing assistance in securing funds and donations.

Article IX

Honorary Members

(1-a) Honorary members of the Horticulture Club are those recognized by the club, NCSU faculty, outstanding workers in the field, or others, who have rendered assistance to the club. Honorary members must receive a two-thirds vote of the active members present at the time of voting. Nominations may be made by the executive committee or any other club member.

- (1-b) Honorary members will receive a certificate of recognition at the Annual Spring Banquet.
- (2) These honorary members have no voting privileges, and cannot share in club benefits unless specified by the club.

Article X Awards

- (1) The Horticulture Club gives three awards annually: Outstanding Underclassman Club Member, the Fred D. Cochran Outstanding Senior Club Member Award, and the Margaret Pittman "Spirit of Horticulture" Award.
- (2) The Outstanding Underclassman Award and the Fred D. Cochran Outstanding Senior Club Member Award are given to those who have given outstanding service to the club above and beyond the call of duty.
- (3) The Margaret Pittman "Spirit of Horticulture" Award is named in honor of Mrs. Pittman, who served as secretary to the Undergraduate Coordinator. She cared deeply for the welfare of the students and was always willing to listen or lend a hand to help out. This award shall be given to the student who demonstrates caring and dedication to the club and its members.
- (4) All awards are voted on at the next to last meeting of the spring semester. No nominations will be made for these three awards. The secretary shall prepare three ballots, one listing seniors, one listing underclassman, and another listing all active members of the club. The recipients will be presented with a plaque at the Spring Banquet.
- (5) In case of a tie, those persons involved shall be declared co-winners of the award.

Article XI

Parliamentary Authority

(1) The rules contained in *Roberts Rules of Order Revised* shall govern the club in all cases to which they are applicable and not inconsistent with the Constitution and bylaws or this club.

Article XII

Methods of Amending the Constitution

(1) The Constitution and Bylaws may be amended by a two-thirds vote of the active membership present. The amendment must be submitted in writing at the previous regular club meeting.

CONSTITUTION AND BYLAWS OF THE NORTH CAROLINA STATE UNIVERSITY STATE HORTICULTURAL SCIENCE CLUB (1996 Revision)

Article I

Name

The name of this organization shall be the Student Horticultural Science Club of North Carolina State University.

Article II

Objectives

The objectives of the Student Horticultural Science Club are to stimulate and encourage student interest in the field of horticultural science, to foster educational and recreational activities, and to encourage student participation in extra-curricular activities.

Article III

Membership

(1) Any student having an interest in the field of horticulture is eligible for membership. The spouse of any married member is also eligible.

(2-a) To be considered an active member with voting rights and eligible to participate in club-funded activities, a member must participate in at least fifty percent of the club meetings and projects from the time of their membership recognition.

(2-b) A member who does not meet the requirements in 4-a shall be considered inactive. An inactive member may become active again by bringing his attendance up to the fifty percent mark. An inactive member can be declared active by the executive committee, based on circumstances preventing attendance to meetings

and/or activities. An inactive member has no voting privileges and may not share in club funding.

(3) The executive committee shall interpret questions concerning membership and eligibility for club funding.

Article IV

Officers

(1) The officers shall consist of a president, vice-president, secretary, treasurer, and an agri-life council representative.

(2) The president, vice-president, and secretary shall be elected for semester terms, and the treasurer and agri-life council representative for one-year terms.

(3) The executive committee shall consist of the officers listed in Article IV, 1. Committee chairpersons may attend executive committee meetings at the president's discretion. The executive committee will meet before each regular club meeting and/or at the discretion of the president.

(4-a) The president shall preside at all meetings of the club, and shall represent the club at the agri-life council meetings. The president shall furnish all committee chairpersons with notice of their appointment, names of their committee members, and all the material pertinent to the committee. The president shall also preside at the executive committee meetings.

(4-b) The vice-president shall preside at all the meetings of the club in the absence of the president. The vice-president shall also serve as chairperson of the program committee (i.e. speakers, refreshments).

(4-c) The secretary shall keep records of attendance at all meetings and projects of the club. The secretary shall keep a record of the name and address of each active, inactive, and honorary member. At each meeting, the secretary shall read the minutes of the previous meeting, pass around a roll, and a sign-up sheet for club activities when necessary. The secretary shall post a list of all active members (eligible for voting) in the club room at least 24 hours before any scheduled voting. The secretary shall also keep permanent records of club activities (i.e. past minutes) up to date and on file in the club room, and post a copy of the current

minutes in the club room.

(4-d) The treasurer shall collect all assessments and make all disbursements. The treasurer shall make a report of the financial condition of the club at all regular meetings. With the assistance of the executive committee, the treasurer for the fall semester shall prepare a budget for the upcoming year. The treasurer shall be responsible for keeping subscriptions on club-ordered magazines current. The one-year treasurer term shall begin the first of the fiscal year (January to December).

(4-e) The agri-life council representative shall represent the club at all agri-life meetings, and be prepared to make a report of the meetings at any regular club meeting. The one year term will begin the first of the new school year (August to April).

ArticleV

Meetings

(1) Regularly scheduled meetings shall be held on Tuesday or when class schedules allow to facilitate the attendance of members. Meetings shall be held at least twice a month during the school year except when the club decides that a meeting would not be appropriate.

(2) A calendar of the semester's meetings and functions will be drawn up at the first executive committee meeting of the semester and will be posted prior to the first regular club meeting of the semester.

(3) Special club meetings may be called by the executive committee when it deems necessary.

(4) No matters may be voted upon without a quorum. A quorum shall consist of 51% of the active membership of the club.

Article VI

Advisors

(1) The club shall have two faculty advisors chosen from the Horticultural Science Department faculty. The club shall have a junior and senior advisor.

(2) The junior advisor shall be elected to a two-year term, the second year of which shall serve as the senior advisor. A new junior advisor shall be elected at the end of each spring semester and shall begin their term at the end of the semester they are elected.

(3) Faculty advisors shall not serve consecutive two-year terms.

(4) The job of the club advisor is to advise the club as to departmental policy and to offer suggestions and guidance to the club. The advisor shall serve as liaison between the students and the faculty.

(5) If the faculty advisor is unable to complete a term, an election will be held for a new advisor at the next regular club meeting. The newly elected advisor shall automatically become the junior advisor.

Article VII

Elections

(1-a) The executive committee shall prepare a list of nominations four meetings before the end of the semester, consisting of no less than three nominees for each office. Nominations will be made for president, vice-president, and secretary. The nominations for treasurer will be made at the end of the fall semester. Nominations for the agri-life council representative and the junior faculty advisor shall be made only at the end of the spring semester.

(1-b) All nominations, excluding those for faculty advisors, must be active members of the club as defined in Article III, 2-a.

(1-c) All nominees must be notified by the club secretary within one week of their nominations.

(2) At the second meeting from the end of the semester, nominations from the

executive committee will be presented to the club. At this time, nominations and declinations from the floor will be accepted.

(3) Elections shall be held at the last meeting of the semester using ballots previously prepared by the secretary. No new nominees will be accepted unless unsuccessful candidates for another office.

(4) In case no candidate receives a majority, the two highest candidates shall enter a runoff election. The candidate with the most votes shall be declared the winner.

(5-a) All officers may succeed themselves only once in the same office.

(5-b) Newly elected officers shall assume their duties at the last meeting of the semester in which they are elected.

(5-c) Outgoing officers are responsible for seeing that their successors are properly trained and understand the full duties of their elected positions.

Article VIII

Committees

(1) Committee chairpersons shall be appointed by the club president unless otherwise specified. Committee chairs shall serve a one-semester term. They shall be responsible for keeping the file on their committee up to date with pertinent information. The chair shall periodically report to the executive committee as to their committee's progress. The chair shall be responsible for taking project attendance at the project and submitting this list to the secretary at least 48 hours before the next meeting.

(2) The following committees shall be considered permanent and a chair appointed for each: APPLE CIDER, CHRISTMAS PARTY, PHOTOGRAPHY, PUBLICITY, SERVICE PROJECT, SPRING BANQUET, SPRING PROJECT, TRAVEL, YEARBOOK, ASHS CLUB EVALUATION, CLOTHING, AND FUNDRAISING COMMITTEE.

(3-a) The Apple Cider Committee shall consist of a minimum of three persons. They shall be responsible for setting press dates, organizing the presses, and getting all necessary items to and from the press site.

(3-b) The Christmas Party Committee shall consist of at least two persons. This committee shall be responsible for finding and reserving a place for the party. They shall decide the menu, charges, and the date of the party.

(3-c) The Photography Committee shall consist of a minimum of one person. This committee shall be responsible for authorizing all use of the club camera. It shall be responsible for keeping slides of club activities up to date. This committee shall be responsible for supplying pictures for the yearbook.

(3-d) The Publicity Committee shall consist of a minimum of two persons. The committee's job shall be to put out meeting signs and distribute flyers. They shall work with other committee chairpersons in publicizing each activity. They shall be responsible for getting ads drawn and submitted to the local papers. They shall be responsible for notifying radio stations in advance of projects requiring such publicity.

(3-e) The Service Project Committee shall consist of a minimum of two persons. They shall be responsible for finding a community service project that meets with the approval of the club. They are responsible for delegating duties, finding materials, and seeing that the project is carried out successfully.

(3-f) The Spring Banquet Committee shall consist of a minimum of three persons. They shall be responsible for establishing the date of, and reserving the site for the annual spring banquet. They shall be responsible for sending invitations, collecting money, preparing the program, and making sure all skits and presentations are ready.

(3-g) The Travel Committee shall consist of a minimum of one person. They shall be responsible for determining prices and feasibility of different modes of travel for each club trip. Their job will be to cut unnecessary travel expenses. The committee chairperson shall keep the club informed of committee findings. Final decisions on modes of travel will be made by the club, based on committee recommendations.

(3-h) The Yearbook Committee shall consist of no less than two persons. They shall be responsible for seeing that all committee chairpersons submit articles for the yearbook. They shall be responsible for yearbook distribution at the

Annual Spring Banquet.

(3-I) The ASHS Club Evaluation Committee shall consist of a minimum of two persons. The committee shall be responsible for compiling the necessary information and filling out the Association of the Collegiate Branches (ACB) Club rating sheets for the Regional and National level competitions. This committee shall be responsible for completing the ACB rating sheets and submitting them before the deadlines.

(3-j) The Clothing Committee shall consist of one to two persons to facilitate the acquisition of t-shirts, sweatshirts, and hats. The chair shall be the liaison between the screen printer and embroiderer, and shall be in charge of the annual t-shirt design contest. The chair is responsible for working with the executive committee in selecting t-shirt color, and ensuring that all necessary payments are made. The chair will be responsible for these duties for a one-year term.

(3-k) The Fundraising Committee shall consist of a minimum of two persons. The committee shall be responsible for compiling ideas and methods for raising funds, for the benefit of club activities and scholarships. This committee shall work in conjunction with the Apple Cider Committee and all other committees needing assistance in securing funds and donations.

Article IX

Honorary Members

(1-a) Honorary members of the Horticulture Club are those recognized by the club, NCSU faculty, outstanding workers in the field, or others, who have rendered assistance to the club. Honorary members must receive a two-thirds vote of the active members present at the time of voting. Nominations may be made by the executive committee or any other club member.

(1-b) Honorary members will receive a certificate of recognition at the Annual Spring Banquet.

(2) These honorary members have no voting privileges, and can not share in club benefits unless specified by the club.

Article X

Awards

(1) The Horticulture Club gives three awards annually: Outstanding Underclassman Club Member Award, the Fred D. Cochran Outstanding Senior Club Member Award, and the Margaret Pittman "Spirit of Horticulture" Award.

(2) The Outstanding Underclassman Club Member Award and the Fred D. Cochran Outstanding Senior Club Member Award are given to those who have given outstanding service to the club above and beyond the call of duty.

(3) The Margaret Pittman "Spirit of Horticulture" Award is named in honor of Mrs. Pittman, who served as secretary to the Undergraduate Coordinator. She cared deeply for the welfare of the students, and she was always willing to listen or lend a hand to help out. This award shall be given to the student who demonstrates caring and dedication to the club and its members.

(4) All awards are voted on at the next to the last meeting of the spring semester. No nominations will be made for these three awards. The secretary shall prepare three ballots, one listing seniors, one listing underclassman, and another listing all active members of the club. The recipients will be presented with a plaque at the Spring Banquet.

(5) In case of a tie, those persons involved shall be declared co-winners of the award.

Article XI

Parliamentary Authority

The rules contained in *Roberts Rules of Order Revised* shall govern the club in all cases to which they are applicable and not inconsistent with the Constitution and bylaws of this club.

Article XII

Methods of Amending the Constitution

The Constitution and Bylaws may be amended by a two-thirds vote of the active

membership present. The amendment must be submitted in writing at the previous regular club meeting.

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September 13, 1989

Dr. Thomas H. Stafford, Jr. Vice Chancellor, Student Affairs Box 7301 NCSU Campus

Dear Tom:

As related in our recent conversation the Horticulture Club has provided corsages at no charge for the homecoming queen and court for as long as we can remember. In recent years this has been difficult for the club because of dwindling corsage sales as the result of competition by gororities and grocery stores. Coupled with this is the fact that homecoming weekend always conflicts with our cider press which is the major fund raising event for the club and also requires the most labor.

As a consequence the students have had difficulty in running the corsage sale and the cider press concurrently. The club has lost money on corsage sales over the past few years and continued this event only because of the responsibility to provide corsages for the queen and court.

Therefore the club wishes to be relieved of this responsibility and will no longer provide corsages for homecoming. I concur with their decision. If this causes any problems please contact me.

Sincerely,

Ism Monaco

T.J. Monaco, Head Horticultural Science

cc: Paul Fantz Jeff McKinney J.D. Oblinger

/bea

Oh po ... Here ...

North Carolina State University is a land-grant university and a constituent institution of The University of North Carolina.

Accessed 4/72

CONSTITUTION AND BYLAWS

OF THE

HORTICULTURAL SCIENCE STUDENT CLUB NORTH CAROLINA STATE UNIVERSITY

Article I

Name

The name of this organization shall be the Horticultural Science Student Club of North Carolina State University at Raleigh.

Article II

Objectives

The objectives of the Horticultural Science Student Club shall be to stimulate and encourage student interest in the field of Horticultural Science, to foster and to promote educational and recreational activities, and to encourage student participation in extra-curricular activities.

Article III

Membership

Section 1. Any student having an interest in the field of Horticultural Science shall be eligible for membership. Membership to non-horticulture majors shall be limited to fifteen percent of the active membership.

Section 2. (a). Prospective members must, over a period of two months, attend at least three regular meetings and/or club activities.

(b). All candidates for membership must read and be familiar with the Bylaws.

Section 3. An active member who requests inactive status or who misses four consecutive meetings is an inactive member. An inactive member shall have no voting privileges, but may participate in club activities. Return to active status may be accomplished by stating the wish to do so and the receipt of a two-thirds vote of the active members present at the time of the vote.

Section 4. (a). <u>Voting on membership may be by secret ballot as moved and</u> seconded. The prospective members must receive a two-thirds vote of the active members present at the time of voting.

Article IV

Officers

Section 1. The officers shall consist of a President, Vice-President, Secretary, Treasurer, Editor, and an Agricultural Council Representative.

Section 2. All officers shall be chosen from the active membership of the Club.

Section 3. The Executive Board shall have prepared a list of prospective nominees to be presented at the election meetings with no less than three prospective candidates for each office. Nominations may also be made from the floor at this meeting. Voting may be by secret ballot. In case no candidate receives a majority on the first ballot, all but the two highest candidates shall be dropped and additional ballots cast until one shall receive a majority. The balloting may be dispensed with by a unanimous vote when there is but one candidate for the office. All officers may succeed themselves once. The new officers shall assume their duties at the beginning of each semester.

Section 4. (a). Election of the President, Vice-President, Secretary, and Treasurer shall be held at the next to the last meeting of each semester.

(b). Election of the Editor and Agricultural Council Representative to one year terms shall be held at the next to the last meeting of the spring semester.

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Section 5. (a). The President shall preside at all meetings of the Club and shall also represent the Club in the Agri-Life Council. He shall furnish all committee chairmen with notice of the appointment of the committee, the names of the members, the papers or matters referred to it, and such instruction as the assembly has decided upon.

(b). The Vice-President shall preside at all meetings of the Club in the absence of the President. <u>He also</u> shall serve as Chairman of the Program Committee.

(c). The Secretary shall keep records of attendance at all meetings of the Club and shall keep a record of the name and address of each active and honorary member of the Club. At each meeting he shall read the minutes of the preceding meeting. <u>He shall also keep permanent records of</u> <u>club activities up to date in the Student Activities office to be completed</u> <u>at the close of the spring semester, and shall prepare a copy of all minutes</u> <u>for the club records</u>.

(d). The Treasurer shall collect all assessments, make all disbursements as directed by the Club President and Secretary, and make a report of the financial condition of the Club at any regular meeting.

(e). The Editor shall edit the newsletter and shall serve as reporter to the ACB-ASHS Newsletter.

(f). The Agricultural Council Representative shall represent the Club at all Agricultural Council meetings and shall be prepared to make a report of said meetings at any regular Club meeting.

Article V

Faculty Adviser

Section 1. The Club shall have an adviser chosen from the faculty of the Department of Horticultural Science. He shall be elected by the active

- 3 -

membership of the Club for a one-year term and shall not succeed himself in office for the following year.

Section 2. The Faculty Adviser shall be elected at the next to the last meeting of the spring semester. He must be elected by a two-thirds vote of the active members present at the time of the voting.

Article VI

Meetings

Section 1. Regularly scheduled meetings shall be held on Tuesday. Meetings shall be at least twice a month during the fall and spring semesters, except when the Club decides a meeting would not be appropriate.

Section 2. Special Club meetings may be called by the Executive Board for general policy or Club welfare matters.

Section 3. A quorum shall consist of two-thirds of the active membership of the Club.

Article VII

Executive Board

Section 1. The President and the Secretary shall be ex-officio chairman and secretary of the Executive Board, respectively. The Executive Board shall consist of all elected officers. The Board shall meet at the call of the President.

Section 2. The Board shall be delegated all authority of the Club between meetings; however, it shall be subordinate to the Club and shall not be able to modify any action taken by the Club.

Section 3. At the last yearly meeting the Board shall submit a semester report which shall give a brief account of the year's activities with recommendations for the future.

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Article VIII

Committees

Section 1. Committee chairmen shall be appointed by the President unless otherwise specified. The committees shall be able to act only when quorum is present. All committees shall submit reports and shall serve for only one semester.

Section 2. The standing committees shall be appointed and shall consist of not less than three persons. They shall be: (a) <u>the Outstanding Service</u> <u>Awards Committee</u>, (b) <u>the Publicity Committee</u>, and (c) the Program Committee, all of which shall be appointed at the first regular meeting of each semester.

(a). The Outstanding Service Awards Committee shall prepare a list of nominees to be presented for Club vote.

(b). The Publicity Committee shall be responsible for all Club publicity and shall notify members of all meetings. The Secretary shall be a member of this committee.

(c). The Program Committee shall provide refreshments at the Club meetings and other Club activities. It shall also secure speakers for Club functions.

Section 3. Special committees shall be appointed with power to take all steps necessary to carry out their duties. They shall be: (a) the Cider Committee, (b) <u>the Banquet Committee</u>, and all other committees which the President deems necessary to appoint.

(a). The Cider Committee shall be in charge of the cider project. It shall be appointed at the last meeting of the preceding year and shall consist of not less than two persons.

(b). The Banquet Committee shall care for all matters pertaining to the annual banquet.

Article IX

Honorary Members

Honorary members must receive a two-thirds vote of the active Club membership present at the time of the voting. Honorary members may be a member of the faculty of N. C. State University or outstanding workers in the horticultural field.

Article X

Outstanding Service Award

Outstanding Service Awards are awarded to active members for outstanding service to the Club. The recipients shall be selected by secret ballot and shall be presented with an award at the annual banquet. The number of awards shall not exceed two for any academic year.

Article XI

Parliamentary Authority

The rules contained in <u>Robert's Rules of Order Revised</u> shall govern the Club in all cases to which they are applicable and in which they are not inconsistent with the Bylaws or the special rules of order of this Club.

Article XIII

Method of Amending the Bylaws

The Bylaws may be amended by a two-thirds vote of those voting, a quorum being present; the amendment must be submitted in writing at the previous regular meeting.

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PREAMBLE

Believing that the constant search for truth leads to progress in all human endeavor, we, the students of the Department of Horticulture of the North Carolina State College of Agriculture and Engineering of the Greater University of North Carolina, have formulated this constitution to be representative of our thoughts and views toward the furtherance of the field of horticulture in both a scientific and a practical sense; therefore, through honest endeavor, calculated forethought, and prayerful guidance, we hope to achieve the reward for which so many strive but so few obtain - success.

Refer to or Bostian for report + Rec. to Dr. Rotian

Horticultural Club approved by faculty Council ER Cloyd, Secy

HORTICULTURAL CLUB CONSTITUTION

ARTICLE 1

NAME

The name of this organization shall be the Horticultural Club of North Carolina State College of Agriculture and Engineering.

ARTICLE 2

OBJECT

- 1. The object of this society shall be the promotion and stimulation of advancement in the field of horticulture.
- 2. To promote the furtherance of recreational and educational entertainment for students in horticulture.
- 3. To encourage participation in extra-curricula activities.

ARTICLE 3

MEMBERSHIP QUALIFICATIONS

SECTION 1. All undergraduate students registered in the Department of Horticulture are eligible for membership.

SECTION 2. Graduate students registered in the Department of Horticulture are eligible for membership in the Horticultural Club. SECTION 3. Faculty members are also eligible to take an active part in the activities of the club.

ARTICLE 4

OFFICERS

SECTION 1. The officers of this organization shall be a president, vice-president, secretary, treasurer, and faculty adviser. SECTION 2. The officers shall perform the usual duties delegated to their respective offices. All officers must be attending school at the time of their election, excluding the faculty adviser. The faculty adviser shall be adviser for all enterprises undertaken by the Horticultural Club.

ARTICLE 5

MEETINGS

SECTION 1. The Horticultural Club shall meet in the classroom of the Horticulture Greenhouse, or such other place as may be designated. SECTION 2. Regular meetings shall be held every first and third Thursday of the month at seven P.M., or such other time as may be designated.

ARTICLE 6

AGRICULTURAL FAIR EXHIBIT

SECTION 1. The Horticultural Club shall sponsor a Horticultural exhibit each year at the "Student's Agricultural Fair", the expenses of which are provided for in the constitution of the Agricultural Club of North Carolina State College, Article 7, Section 4.

SECTION 2. The Horticultural Club shall elect, at the first meeting in the spring term, a committee composed of a chairman, a vice-chairman, and two assistants for the Agricultural Fair Exhibit.

SECTION 3. It shall be the function of this committee to formulate plans for the student exhibit to be staged at the State Fair in the fall term. Planning in advance will prevent much confusion and loss of time.

ARTICLE 7

AMENDMENTS

SECTION 1. This constitution, and by-laws pursuant thereto, may be amended at any meeting of the club by a two-thirds majority vote of those present, provided, the proposed amendment has been presented at the previous meeting of the club.

BY-LAWS

ARTICLE 1

DUTIES OF OFFICERS

SECTION 1. It shall be the duty of the president to preside at all meetings of the club. He shall name all standing committees not otherwise provided for and shall perform such other duties as may be prescribed by the constitution and by-laws and those imposed on such an office by parliamentary practice.

SECTION 2. The vice-president shall preside in the absence of the president, and shall serve as program chairman during his term of office; and he shall solicit help from other members as needed.

SECTION 3. The secretary is ex-officio a member of all standing committees. Specifically it shall be the duty of the Secretary; (a) to make and keep official records of the club; (b) to be custodian of all papers and properties, except as otherwise specifically provided for, and (c), to serve as a publicity agent.

SECTION 4. The duties of the treasurer shall be: (a) to collect all funds received from members, (b) to disburse fund collected as directed by the Club.

ARTICLE 2

SPECIAL COMMITTEES

SECTION 1. The president shall appoint such special committees as may be deemed necessary.

ARTICLE 3

NOMINATIONS AND ELECTIONS

SECTION 1. The nominations for the officers of the club shall be made two weeks prior to the date of election.

SECTION 2. The election of officers for the succeeding term shall be held at the last meeting of each term. No officer may succeed himself in the same office.

SECTION 3. The president, vice-president, and secretary shall serve for one-term. The president shall be a member of the senior class during the term for which he is to serve in that capacity.

SECTION 4. The term of office for the treasurer and faculty adviser shall be for the entire school year and they shall be elected at the annual spring election.

SECTION 5. All elections shall be governed by a majority rule of members present.

ARTICLE 4

DUES

SECTION 1. All dues shall be voluntary.

SECTION 2. Special collections shall be solicited as needed to carry out the plans and programs of the Club.

HORTICULTURE CLUB CONSTITUTION

Article I Name

The name of this organization shall be the Horticulture Club of North Carolina State College of Agriculture and Engineering of the Greater University of North Carolina.

ARTICLE II Object

The object of this Horticultural Club shall be to stimulate student interest in the field of Horticulture; to foster and promote recreational and educational activities; and to encourage student participation in extra-curricula activities.

ARTICLE III Officers

The officers shall consist of a President, Vice-President, Secretary, Treasurer, Reporter, and Faculty Advisor.

ARTICLE IV Meetings

Meetings will be held at least twice a month unless otherwise designated.

ARTICLE V Membership

Section I, Members

- a. Any student majoring, or planning to major, in the field of Horticulture
- b. Must have an interest in the club for at least two (2) months. c. Must have attended at least three (3) regular meetings.
- d. Hust have received at least 2/3 majority vote of active and associate mem-
- bers present at the time of vote. e. Must have received at least 2/3 majority vote of active members present and will lack voting status.
- f. All candidates for membership should have read and be familiar with the Constitution and By-Laws.
- g. If a member has three consecutive unexcused absences, he will be dropped from membership in the Club.

Section II, Associate Members

- The associate member may be any other person interested in the Club. He a. will be voted in by a 2/3 majority vote of the active members present and will lack voting status.
- b. Must have met all the other requirements as set forth in Section I b, c, e and f.

Section III, Honorary Members

Must receive a 4/5 majority vote of active club members present at the time of the vote. May be a member of the faculty of State College or an outstanding key worker in the Horticultural field.

Section IV, Honor Members

- a. Must be a member or associate member.
- b. Will be selected by secret ballot of active members for outstanding service to the club and will be presented with a gold key.
- c. The number of honor members will not exceed three for any academic year.

Section V. Inactive Members

a. Any active and associate member who requests this status.

- b. Any active or associate member who does not attend a meeting for six (6) months.
- c. Return to active status may be accomplished by stating wish to do so and the receipt of a majority vote of members and associate members present at the time of vote.

Section VI, Voting on Membership All voting on membership must be by ballot.

ARTICLE VI Ammendments

The Constitution may be amended by a two-thirds vote of the Horticultural Club at any regular meeting, providing such amendment has been read at the last regular meeting.

BY-LAWS

Section I - Eligibility and Election of Officers

All officers shall be chosen from the active membership of the club. Election of officers shall be held at the next to the last meeting of each semester year, the new officers assuming their duties at the next meeting. Nominations of officers shall be made from the floor and voting shall be by ballot. In case no candidate receives a majority on the first ballot all but the two highest candidates shall be dropped and additional ballots cast until one shall receive a majority. Officers may succeed themselves once.

Section II - Duties of Officers

The President shall preside at all meetings of the club, and serve ex officio as a member of the executive committee.

The Vice-President shall preside at all meetings of the club in the absence of the president, serve ex officio as a member of the executive committee and serve as chairman of the program committee.

The Secretary shall keep records of attendance and the proceedings of each meeting of the club. He shall also keep a record of the name and address of each active, associate and honorary member of the club. He shall keep an active file of alumni in Horticulture so that information can be sent out from time to time. At each meeting he shall read the minutes of the preceding meeting and serve ex officio as a member of the executive committee. (additional duties of secretary);... The secretary will send out and post notices of meetings.

The Treasurer shall collect all dues, assessments, and initiation fees; make all disbursements as directed by the club (or president); and be prepared to make a report of the financial condition of the club at any time. He shall keep an appropriate account of receipts and disbursements and present them for auditing as prescribed by the office of the Director of Instruction. He shall perform other duties as usually pertain to this office and serve ex officio as a member of the executive committee. (addition) - Committee chairmen will be empowered to request funds from the Treasurer, the amount not to exceed ten dollars.

The reporter will omit posting and mailing notices. He shall be responsible for all publicity for the club and serve ex officio as a member of the executive committee. (addition). The reporter will edit the Newsletter and keep permanent record of club activities up-to-date in Holladay Hall (To be completed at the close of the spring semester).

The Faculty Advisor shall be a member of the Horticulture Department and shall be elected by the Club.

Section III - Executive Committee

There shall be an executive committee consisting of the President, who shall be chairman, the Vice-President, the Secretary, the Treasurer, and the Reporter. This committee will meet at the call of the president to consider matters of general policy or welfare of the club and present its recommendations at a regular meeting of the club.

Section IV - Membership Committee

There shall be a committee on membership whose duties shall be the promotion of membership in the club as regulated by Article V. of the Constitution.

Section V - Social Committee

There shall be a social committee to plan and set up the exhibits at the State Fair in the fall. This committee shall be appointed by the president not later than the second meeting of the fall semester. This committee shall provide for refreshment at the meetings of the club.

Section VI - Program Committee

There shall be a program committee consisting of three persons with the Vice-president as chairman, the other two members being appointed by the president. It shall be this committee's duty to secure speakers and outline a suitable program in keeping with the object of the club for meetings, other than business meetings.

Section VII - State Fair Exhibits Committee

There shall be a committee to plan and set up the exhibits at the State Fair in the fall. This committee shall consist of not less than five persons to be appointed by the president at the first regular meeting of the fall semester. The committee chairman shall appoint association chairmen to be in charge of each individual exhibit.

Section VII - Cider Committee

There shall be a committee in charge of the cider project. This will consist of not less than three persons appointed by the president not later than the second meeting of the fall semester.

Section IX - Dues

. . .

Dues may be determined by a 2/3 majority vote of the club members present at any regular or previously announced special meeting of the club.

Section X - Reading of the Constitution and By-Laws

The Constitution and By-Laws shall be read at the first regular meeting of each semester.

HORTICULTURAL CLUB CONSTITUTION

ARTICLE I

Name

The name of this organization shall be the Horticultural Club of North Carolina State College of Agriculture and Engineering of the Greater University of North Carolina

ARTICLE II

Object

The object of this Horticultural Club shall be to stimulate student interest in the field of Horticulture; to foster and promote recreational and educational activities; and to encourage student participation in extra-curricula activities.

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Meetings will be held at least twice a month unless otherwise designated.

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Membership

Section I, Members

- a. Any student majoring, or planning to major, in the field of Horticulture.
- b. Must have an interest in the club for at least two (2) months.
- c. Must have attended at least three (3) regular meetings.
- d. Must have received at least 2/3 majority vote of active members present at the meetings.
- e. Must have met all other requirements set forth in the By-Laws and policies.
- f. All candidates for membership should have read and be familiar with the Constitution and By-Laws.

Section II, Associate Members

- a. The associate member may be any other person interested in the Club. He will be voted in by a 2/3 majority vote of the active members present and will lack voting status.
- b. Must have met all other requirements as set forth in Section I; b, c, d, and e.

Section III, Honorary Members

Must receive four-fifths majority of active club members present at the time of the vote. May be a member of the faculty of State College or outstanding key workers in the Horticulture field.

Section IV, Honor Members

- a. Must be a member or associate member.
- b. Will be selected by secret ballot of active members for outstanding service to the Club and will be presented with a gold key.
- c. The number of honor members will not exceed three for any academic year.

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- a. Any active or associate member who requests this status.
- b. Any active or associate member who does not attend a meeting for six (6) months.
- c. Return to active status may be accomplished by stating wish to do so and the receipt of a majority vote of active members present at the time of vote.

Section VI, Voting on Membership

All voting on membership must be by ballot.

ARTICLE VI

Amendments

The Constitution may be amended by a two-thirds vote of the Horticultural Club at any regular meeting, providing such amendment has been read at the last regular meeting.

BY-LAWS

Section I - Eligibility and Election of Officers

All officers shall be chosen from the active membership of the club. Election of officers shall be held at the next to the last meeting of each semester, the new officers assuming their duties at the next meeting. Nominations of officers shall be made from the floor and voting shall be by ballot. In case no candidate receives a majority on the first ballot all but the two highest candidates shall be dropped and additional ballots cast until one shall receive a majority. All officers may succeed themselves once.

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The Treasurer shall collect all dues, assessments, and initiation fees; make all disbursements as directed by the club (or president); and be prepared to make a report of the financial condition of the club at any time. He shall keep an appropriate account of receipts and disbursements and present them for auditing as prescribed by the office of the Director of Instruction. He shall perform other duties as usually pertain to this office and serve ex-officio as a member of the executive committee. Committee chairmen will be empowered to request funds from the treasurer, the amount not to exceed ten dollars.

The Reporter will edit the Newsletter and keep permanent record of club activities up to date in Holladay Hall (to be completed at the close of the spring semester). He shall be responsible for all publicity for the club and serve ex-officio as a member of the executive committee.

The Faculty Advisor shall be a member of the Horticulture Department and shall be elected by the club.

Section III - Executive Committee

There shall be an executive committee consisting of the President, who shall be chairman, the Vice-President, the Secretary, the Treasurer, and the Reporter. This committee will meet at the call of the President to consider matters of general policy or welfare of the club and present its recommendations at a regular meeting of the club.

Section IV - Membership Committee

There shall be a committee on membership whose duties shall be the promotion of membership in the club as regulated by Article V of the Constitution.

Section V - Social Committee

There shall be a social committee whose duty will be to make arrangements for banquets, parties, and trips. This committee shall be appointed by the President not later than the second meeting of the fall semester. This committee shall provide for refreshments at the meetings of the club.

Section VI - Program Committee

There shall be a program committee consisting of three persons with the Vice-President as chairman, the other two members being appointed by the President. It shall be this committee's duty to secure speakers and outline a suitable program in keeping with the object of the club for meetings, other than business meetings.

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There shall be a committee to plan and set up the exhibits at the State Fair in the fall. This committee shall consist of not less than five members to be appointed by the President at the first regular meeting of the fall semester.

Section VIII - Cider Committee

There shall be a committee in charge of the cider project. This committee will consist of not less than three persons appointed by the President not later than the second regular meeting of the fall semester.

Section IX - Dues

Dues may be determined by a two-thirds majority vote of the club members present at any regular or previously announced special meeting of the club.

Section X - Reading of the Constitution and By-Laws

The Constitution and By-Laws shall be read at the first regular meeting of each semester.

Purposes and Activities of the Horticulture Club

The objective of the Horticultural Science Student Club as stated from the revised constitution is ... to stimulate and encourage student interest in the field of Horticultural Science, to foster and to promote educational and recreational activities, and to encourage student participation in extracurricular activities.

The club is a member of good standing of the campus Agricultural Council, of the Southern Regional American Society for Horticultural Science Collegiate Branch and the National Collegiate Branch of the ASHS. Since the Club's financial project is so successful we are able to send delegates to the regional and National meetings of the ASHS paying the majority of their expenses.

Our money making project is one of our biggest events of the year with the Annual Spring Banquet being the biggest event of the year. Weeks are spent in preparation of making apple cider. Several hundred gallons of a special blend is made. These are usually sold before Christmas.

In May our annual banquet is our major social event. The entire Horticulture Dept., faculty, staff and students with their wives or dates are invited with the expenses being footed by the Club.

This banquet highlights a year of regularly held meetings, guest speakers and field trips to Horticulturally interesting areas.

The Club publishes one month of the year a collegiate newsletter to be sent to the various Horticulture Clubs of the Southern Region of the Collegiate Branch ASHS. The Club is well knit and very close. The Horticulture Club is lucky to also have such close cooperation with the faculty and staff. This warmness of friendship ties the students thru the Club to the faculty and staff.

> Mike Jackson, President Horticulture Club Jan.12, 1965

The permanent address of the Club is:

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The Horticulture Club Dept. of Horticultural Science 118 Kilgore Hall N. C. State Raleigh, N. C.

North Carolina State College



Collegiate 🕅 Newsletter

COLLEGIATE NEWSLETTER

Prepared by THE HORTICULTURAL CLUB North Carolina State College

November, 1957
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HORTICULTURAL CLUB OFFICERS

President	1	ľ	r.	·	٠	•	•	•	1	.1	ľ	•	•	١	Lee Cash
Vice President	• •	•	•	•		•	•	•	•	·			•	ŀ	Tom Gilmore
Secretary	• •	•	ŕ	•	•		•	·	•		ŀ		•		"Jud y " Medlin
Treasurer	•••	•	•	•	•	•			•	•		•	•	P	Harley Blackwell
Reporter	•••	•	•			•	•	•	•		•	·	•		Harry Neely
Faculty Advise	r .	•	•	•	•	•	•	•	•	•	•		•		M. E. Gardner

THE COVER

The cover for this year's Collegiate Newsletter was designed by Harry Neely and prepared by our Division of Agricultural Information, using the "off-set" printing method. We think they both did good work and extend our congratulations.

SELECTION OF OUTSTANDING SENIOR IN HORTICULTURE

Beginning in 1955, the outstanding Senior in Horticulture has been selected each year by vote of the club members. Selection has been based on scholastic standing, club and other extra-curricular activities. The winner is presented with an engraved cup, which is awarded in the spring during the annual student-staff banquet. His name is also engraved on a plaque which is kept in the club room.

THE WINNERS!

1955	William	s.	Enloe
1956	Charles	Α.	DePoe
1957	Charles	A.	Jackson

Charles DePoe has completed work for his Master's degree and has begun work on his doctorate. Charles Jackson began work on his Master's last July 1. Bill Enloe spent two years in the Air Corps and is now back on his home farm. He is making a nice contribution to his community as manager of a cooperative apple growers group.

HORTICULTURAL CLUB ACTIVITIES

Lee Cash, President Senior--Vegetable Crops

Another school year is in full swing at North Carolina State, and, as usual, we are busy with projects and other activities. We have learned that activity creates interest, so we try to keep everyone busy.

The first project undertaken was the designing and construction of a booth to compete with other departments in the School of Agriculture at our State Fair. This student fair is sponsored by the Agricultural Club and is "A Fair Within a Fair." We won first place in 1956 and second in 1957. We held the first place cup for one year, and if we had won again last fall the cup would have been ours to keep. We will make a strong bid for first again in 1958. All of the club members worked together, but much of the credit must go to the co-chairmen: Frank Johnson and Marshal Shepherd; and to our faculty adviser, Professor M. E. Gardner.

The second Project is cider making. Last year we made cider and sold it in half-pint bottles at the State Fair. This year we decided to make cider, but to bottle it in gallon jugs. This saves much time and we find that we actually make more clear money. We have built a reputation for making good blended cider, and we have no trouble selling it. This is a project in which all the members participate and was under the leadership of Ted Ashley, Chesley Greene and Junius Sales.

Our judging teams did very well in national competition. Last year our vegetable judging team competed in the national contest in Grand Rapids, Michigan, and came home with third place. The team was composed of Harvey Morris, third high score nationally, Don Hudson and Lee Cash. The flower judging team was composed of Lewis Howe, Bob Strother, Charles Jackson and Ben Kirkland, alternate. Since only a few points separated first and sixth places, we feel that the team did real well. The team was coached by Dr. J. B. Gartner, Chairman of the Floriculture Section. This year we are happy to be host for the national contest here on our campus, and are looking forward to meeting students and coaches from all over the United States.

We consider our Newsletter a very important project, and many of the members are contributing to its success by writing articles or helping to assemble it. The project this year is under the able leadership of Harry Neely. We look forward to improving our Newsletter each year.

We have already had one student-staff picnic and are planning two more for the year. We are also planning our annual banquet, which will be held in the spring. All of these events are enjoyable and attended with greath enthusiasm. They add a great deal to the atmosphere of the whole department, and we greatly appreciate the interest the faculty has shown in the students.

This is a brief summary, but we hope these projects and activities will be of interest to you. We would like to hear about your activities and projects.

WHY I CHOSE A DOUBLE MAJOR

Dott Morton, Senior Ornamentals

Because of their basic requirements and the dependence of landscape architecture in this part of the country on horticultural material, these two fields open wide the storeroom doors to the vast potential of creativity in the outdoor world.

Here at North Carolina State College, the Department of Landscape Architecture is a part of the School of Design which prepares a student to approach a problem from both a functional viewpoint and an aesthetical one. Courses are designed to make the student aware of the existing outdoor landforms, and their problems, and to offer technical skills which aid him in his attempt to plan the use of these spaces for the current needs of society.

In some urban areas, where land is at a premium, few outdoor spaces are retained, and emphasis is placed on functional use of every inch of space. For this reason planting is held to a minimum. At present, in North Carolina, this space problem does not exist, and planting may be utilized extensively Grass areas predominate over paved courtyards, and potted plants grace a porch rather than the garden area.

It is because of this current situation in the use of outdoor space that I feel the acquisition of more horticultural knowledge is essential to fill the reservoir of the landscape architect. It will enrich his designs as color textures enrich a blank canvas.

Prior to 1948, Landscape architecture was an option in the Department of Horticulture. At that time Architecture was transferred from the School of Engineering and Landscape Architecture from the School of Agriculture, creating the School of Design. Landscape Architecture is now a five-year curriculum, so you can see that Dott is pursuing a rather ambitious program, as an additional year of schooling will be necessary to complete the requirements for a BS in Horticulture.

THE VALUE OF LANDSCAPING

Tom Gilmore, Junior Ornamentals

In America today, with the world's highest standard of living, landscaping is a very vital part of the daily lives of people because their joys, sorrows, satisfactions and pleasures are affected by their surroundings.

Consider the trees, shrubs, flowers and lawns; all are an essential part of every home, street, park or highway and provide shade, fruit and beauty which cannot be measured in monetary terms. These plants are indeed vital to everyday living, and yet few people stop to consider how very much they contribute nor how dreary and gloomy the areas would become if they were suddenly removed and spirited away.

The slogan, "A House Is Not a Home Until It's Planted," is very appropriate and is good advice for modern homeowners. The carefully planned and well landscaped home of today is a mark of distinction and provides much pleasure and enjoyment. It is a recognized fact that a well planted home will sell for 15 to 20 percent more than a house which has been neglected in this respect.

Throughout the nation there is a marked trend toward the greater use of ornamentals. This is good, and has resulted from the education of the public by the use of radio, television magazines and newspapers. County and home agents, Extension Service Specialists and garden clubs have also played an important part. Nursery products are now being considered more and more as necessities rather than luxuries.

Today in America, the average home is only about 22 percent planted, and most homes are re-landscaped every 15 years. By 1959 over three billion dollars a year will be spent for home garden needs by 30 million home owners.

It is predicted that, by 1975, the United States will have a population of between 210 and 215 million people with a gross income double that of today. The labor force will total some 90 million with a work week of about 20 hours. More people will move out of the cities into urban and rural communities where they will have more time for gardening and relaxation. Such conditions will create even greater demands for nursery products and landscape service.

In North Carolina there are 750 certified nurseries representing about 2080 acres. The majority of these nurseries are small and will hardly supply the growing demand for plant materials. The present trend seems to be toward Ilex and other broadleaf evergreens, but the wise nurseryman must be ever alert to anticipate needs and propagate to meet them.

It is my opinion that a student majoring in horticulture, with an option in ornamentals, can look forward to a bright future.

Tommy has been raised in the nursery business, as his father operates one of the larger nurseries in the Piedmont

section of the State. His vigor and enthusiasm are recognized as stemming from his intimate knowledge of a business in which he has confidence.

THE VENUS FLY-TRAP

Jimmie L. Crowe, Junior Ornamentals

North America is the home of fifteen carnivorous plants. Most of these meat eaters live on insects.

One of the most cunningly engineered traps imaginable is the Venus Fly-Trap (<u>Dionaea muscipula</u>). It is indeed a miracle of nature, complete with sweet lure and a trigger mechanism that is really fantastic. This marvel of nature is found growing wild nowhere else in the world except in restricted areas around Wilmington and Morehead City, North Carolina.

The discovery of the Venus Fly-Trap goes back to the year of 1760. Arthur Dobbs, then govenor of North Carolina, discovered them and sent one to Kew Gardens in England. John Ellis, of Kew Gardens, drew a description and figure which he sent to Linnaeus in 1770. The plant was then described in Latin, and a description of it was published in 1773.

The fan shaped petioles of the plant arise from a scaly bulb which is usually around one-half inch to one inch in diameter, and the entire plant is usually a foot or more in diameter. But it is the construction of the trap, located on the end of each leaf, that is really the work of a master craftsman. Each trap is located at an upward angle on each leaf and is composed of two concave half-moon shaped modified leaves. The traps are usually from one-half inch to two inches in length and about one-half inch in width. The outer edges of the trap are the triggers that set the trap in motion. These triggers are composed of three, fine, short bristles located in practically a perfect triangle on each side.

Now comes a unique feature of the Venus Fly-Trap. To set the trap in motion requires that at least two of the triggers be touched within a very short time, or one trigger touched twice. This helps to keep the trap from closing on pieces of trash that happen to fall on it. Once the trap is set in motion, it takes less than one second for it to completely close, so very few meals ever escape from its grasp.

Now the bristles on the outer edges come into use. They interlace like the fingers of the hands when clasped together. This is to preven: the victim from escaping. Another unique feature comes into bearing. As these bristles are evenly spaced along the outer edges, they play an important part in helping to determine if the victim is large enough to supply nutrient value, because if the victim is too small it can escape through the space that is left when they are interlaced. This also helps the Venus Fly-Trap to conserve its energy by not wasting time on consuming a victim that has little food value.

Once a victim is trapped and cannot escape, the trap begins to secrete an unknown substance that dissolves the fleshy parts. Actually, the victims do not suffer, as the

substance seems to kill them upon contact. After digesting the captive, the trap reopens and prepares for another catch. Another amazing feature of the trap is that, upon opening, you will find a perfect skeleton of the victim. This impresses upon one the great strength of the traps and yet the gentleness it seems to possess. Skeletons of small frogs have actually been found within some of the traps.

The Venus Fly-Trap reproduces sexually. In the spring of the year it sends up small, white, daisy-like flowers. There are only five petals to a flower. Upon pollination, the seeds are formed within a small capsule. They are very fine and shiny black in color. This is the only means that the Venus Fly-Trap has for reproduction.

Many people have tried to grow the Venus Fly-Trap in their homes, but no one has really succeeded in doing so. In its natural habitat, and from what I have observed, the plants grow in a peat muck which has been formed mostly from grass sedge and where there is running water, as it will not tolerate stagnant water. During its growing season, the temperature is usually above 70°, and most of the time closer to 90° during the day. The humidity is always close to 100 percent.

To protect this masterpiece of nature's work and to preserve it for future generations, the North Carolina State Legislature passed a law on July 15, 1951, prohibiting the digging or shipping of the world's most uniquely constructed insect-catching plant. In April, 1957, this law was rewritten

and now anyone owning the land on which they are found growing may obtain permission to sell them. They are presently glutting the market with Venus Fly-Traps. It now appears that this marvel of nature will join the rest of our known, but no longer existing, plants that once grew in this wonderful country of ours.

Jimmie is to be complimented on the excellence of this article. Much of the information stems from an intimate knowledge of this most unusual of plants. In addition, he has done extensive research, having tapped every source of information available to him.

THERMAL BELTS AND FRUIT GROWING IN NORTH CAROLINA

Jim Hicks, Junior Fruit Crops

For many years it has been known by the fruit growers of the North Carolina mountains that certain orchard sites in the mountain area are better suited than most of the surrounding areas. To the many people who obtain a livelihood from their orchards, the selection of an orchard site is a very real and important step. Since frost is one of the most prominent hazards to the fruit crop, a site that is "frost free" is highly desirable. Desirable sites, such as this, seem to occur in belts or zones in the mountains of this country and of Europe. These belts are called Thermal belts, or "verdant zones."

Perhaps the topography of North Carolina should be mentioned at this time. One-half of "The Old North State" is made up of the Coastal Plains; about one-fourth is in rolling hills, called the Piedmont; and the final one-fourth, located in the western part of the State, comprises some of the highest elevations east of the Rockies. In North Carolina, the Thermal belts occur quite frequently in the mountains, very seldom in the hills of the Piedmont, and never on the Plains. Since North Carolina is so richly blessed with mountains and since the Thermal belts that occur in these mountains are so important to the welfare of a great number of people, they have received quite a bit of attention. To understand what the Thermal belt is and why it occurs, one must remember that cold air is heavier than warm air and for this reason the cold air tends to settle in low places, or "frost pockets." By the same logic, the warm air moves upward and is eventually lost to the atmosphere. The Thermal belt is on that portion of the slope that is located above the frost pocket and yet is not high enough for "high top freezes." The high top freezes are the ones that occur due to high altitude.

Neither dew nor frost is formed in a Thermal belt. The belt is the result of the cold air moving on downward and the warm air moving up over the slope. This zone, or belt, varies up and down the slope during different weather conditions. On a quiet, still night the zone may be rather well defined, while on a windy night it may be almost non-existent. As an example of how clearcut the Thermal belt may be, it has sometimes been noted that the bottom part of a tree lost all its bloom to frost while the top, which reached up into the Thermal belt, had a full crop. One such case was noted near Elkin, North Carolina, years back, where one-half of a cherry tree--the top--was inside the Thermal belt and produced a full crop, while the other half--the bottom--was outside the belt and produced no fruit at all.

Perhaps some of the topographical conditions that generally affect a Thermal belt would be in order at this time. Ordinarily, the steeper the slope the warmer it is. However, if another steep slope is directly opposite and close enough

to form a deep, narrow valley, the entire slope will be relatively cold. On the other hand, if there is only one slope and it forms a knob at the top, the entire slope will be relatively warm. A gradual slope is usually much colder than a steep one, and the nearer it approaches the level of a plain, the colder it becomes.

On a short slope, no more than 500 feet above the valley floor, the safest section for fruit growing is on the summit, provided it is in the shape of a knoll. The reason for choosing the summit in this case is to get away from the frost pocket which almost invariably occurs on the valley floor and extends variable distances up the slope.

A Thermal belt may raise the temperature from one to twenty degrees above the temperature that prevails outside of the belt. With this in mind and also recalling that frost is the main threat to our fruit growing, it is easy to see that having an orchard in a Thermal belt may mean the difference between a good crop and a complete crop failure.

A research /upon the thermal conditions in the North Carolina mountain region/ was inaugurated in 1912 by the United States Weather Bureau at the request of the State Department of Agriculture and the State Horticulturist, with the hope that the so-called Thermal belts might be more clearly defined, and that safe elevations in the various sections for the planting of fruit trees might be determined, as far as possible.

This quote is taken from an official report of the USWB published in 1922. It represents an extensive study covering 106 pages. Jim has analyzed the data very well.

A FIELD TRIP IN NURSERY MANAGEMENT

Benjamin E. Kirkland, Senior Ornamentals

North Carolina, with its varied soil and climatic conditions, an annual average rainfall of approximately 50 inches, and a long growing season, is an ideal state for the establishment of all types of nurseries. There are 750 nurseries on 2080 acres. These nurseries range from large to small, with the average size being about three acres. They range in type from general to special and from retail to wholesale, with many combinations.

We are fortunate in being near the center of this growing and thriving business. Through the cooperation of the nurserymen and the College staff, the students have excellent opportunities to study plant materials, as well as operating procedures and trends in the business of nursery management and sales. Mr. Glenn O. Randall of the College staff has been very helpful in arranging a one-day tour for the students in Nursery Management to visit several nurseries near Raleigh and Greensboro, having in mind for us to spend some time studying various types of businesses, both small and large.

We left the campus early on October 21st and drove to North State Nursery, located at Julian, about 60 miles from Raleigh. We arrived about 8:30 a.m. and met Mr. Glenn Gilmore, the owner and operator. North State Nursery is quite an extensive operation doing both a retail and wholesale business and dealing in general nursery stock and bulbs. The students were shown the large propagation setup and were then taken out into the field where one and two-year-old liners were being grown. We were shown a rather unusual method of irrigation in which water is brought to the edge of the fields in open irrigation ditches, run into small depressions there, and then pumped from these small "wells" to the growing stock. It seemed to work quite well.

North State's plantings were made so as to facilitate cross cultivation and the efficient operation of machinery and tools. Access roadways throughout the farm were planted to various grasses to hold down weeds and also to prevent excessive erosion. Mr. Gilmore showed us a block of several acres of dahlias which are used for the tuberous roots rather than the flowers. In one section of the nursery we observed the digging of two-year apple and peach trees, which are stored and sold bare root. A caterpillar tractor was used which had an underground blade to loosen the soil around the roots for easy removal of the plants with the least damage to the root system. We then visited the bulb grading, storage and packing operation and were shown the packing sheds where deciduous plants were being graded and stored, and evergreens balled and burlapped. We had lunch with Mr. Gilmore and left immediately for a 12-mile drive to Greensboro, and Lindley Nurseries.

When we arrived at Lindley's we were shown the propagating structures and greenhouses. Of particular interest to me were

the permanently constructed beds for lining out rooted cuttings until they are ready for the field. We visited some large plantings of Ligustrum and Chinese and Japanese hollies and saw several varieties which were unfamiliar to the students. The importance of fertilization and irrigation were emphasized in growing quality nursery stock. We then visited the storage and packing houses. The storage room is in a large basement under the loading platform and office spaces, with an outside entrance. Most of the students had seen the storage area when it was filled with plant materials, and less time was spent here.

After leaving Lindley Nurseries we drove to Guilford Gardens, which is located on about three acres of land near Greensboro. Guilford Gardens, owned and operated by Mr. D. E. Petty, deals in the propagation and growing of bedding plants of various kinds, including a large planting of dwarf azaleas and candytuft. This firm makes its own plant bands, which are used extensively as containers in which to grow and sell plants. They are made of 15-pound weight asphalt felt and stapled together to form unique bands. Mr. Petty told us that this operation was a great saving to his business, since it was efficient and also utilized labor in off-seasons. Efficient utilization of labor during a 12-month period is an advantage in meeting competition in and around industrial areas like Greensboro. After a pleasant, though short, visit to Guilford Gardens, we drove back to Raleigh in the late afternoon.

Tours such as this one have proven invaluable to students in horticulture at North Carolina State College in their training program. Not only do we gain knowledge of plant material and operating procedures, but we also gain valuable insight into the business practices and trends of the nursery business.

Ben comments briefly concerning the varied climatic conditions in North Carolina. Probably a few more facts will be of interest, because of the response of many horticultural plants to temperature, day-length and moisture.

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The average annual rainfall will vary considerably, but is approximately 50 inches for the Coastal Plains, 45 inches for the Piedmont and 60 inches for the Mountains. One area in the Mountains has an average annual rainfall of 80 inches, the second highest annual rainfall in the United States, and strangely enough, and not far away, the lowest recorded annual rainfall of 37 inches.

The growing season shows tremendous variation, as reported by the U.S. Weather Bureau. The length of the "freeze free" season varies from a maximum of 280 days along the coast to a minimum of 150 days in one high mountain area along the western North Carolina-East Tennessee border. You can see, then, that the dates of the last killing frost in the spring and the first in the fall will vary widely.

These varied climatic conditions, together with a multiplicity of soil types, make it possible to grow somewhere in in North Carolina, most of the plants adapted to the temperate zone.

A MULTIMILLION-DOLLAR MYSTERY --THE CAROLINA BAYS--

Frank R. Johnson, Senior Vegetable Crops

In the Coast Plains of North Carolina, South Carolina and Georgia is found a mystery. Here are found countless ovalshaped shallow craters. Many of the craters are no more than a few hundred feet in diameter, but some are over six miles long. These craters are commonly called "Carolina Bays" because of their predominance in the two Carolinas.

The origin of these craters is not definitely known, but many geologists believe that they were caused by the impact of meteorites striking the earth. All craters are oval-shaped and often have sand rims around their souteastern end. They are very clearly defined in aerial photographs. Strangely enough no remains of meteorites can be found.

These crater bays are often in the form of lakes or swamps. Many of the bay swamps are covered by forests, while others have only low-growing bushes. Soils found in the bay swamp are generally very high in organic matter. Because of their high organic matter content, the bays are potential sources of excellent agricultural land. But there is one drawback--practically all bays are wet-natured and must be drained. Many smaller bays, perhaps those less than three-fourths of a mile long and containing less than two to three hundred acres, can be drained by a single ditch. Larger bays may require lateral ditches draining into a main ditch or canal. Bay solid should not be overdrained, as overdrainage results in drying out of the organic top soil. The dry organic matter will then be depleted by "burning out." Water level control gates should be located at intervals in the drainage ditches in order to regulate the water table and control soil moisture.

Comparatively few bays have been drained. However, there has been a rapid increase in bay drainage in the past few years. Ambitious men have found a new "gold mine." Many drained bays are used for pastures and corn; soybeans and horticultural crops are grown on others. For example, a farmer in Robeson County drained a 1000-acre bay this year which he plans to use for growing blueberries.

At present there is vast opportunity in the development of bay soils because they can be bought cheaply. The cost of drainage ditch construction is low when the large area drained is considered. The main costs lie in clearing off bushes and trees and for lime and fertilizer.

High yields can be obtained from bay soils as plenty of organic matter makes them fertile. Dry weather generally is no problem when water control gates are properly constructed and utilized.

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EXTENSION WORK--A CHALLENGE

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Don E. Hudson Class of 1957

On May 24, 1957, just two days before graduation, I was accepted in the Agricultural Extension Service as an assistant county agent in Bladen County in the southeastern part of the State. Little did I realize on that day the challenge and change awaiting me, a "son of the hills," in a coastal plains county where it is level as far as the eye can see, and where the only rocks I have found were the ones imported from the hills

I began work on June 1 as the assistant county agent in charge of 4-H Club work. When I began work there was a question in my mind just where a graduate in horticulture would fit into 4-H Club work in a county where the main crops were corn, tobacco and peanuts. Now, as I look back over the past three months, the events that have happened give a clue to the answer. Striga, or witchweed as it is commonly called, has come to infest many areas in Bladen and surrounding counties. Striga, a parasite to corn and other members of the grass family, completely saps corn of its nutrient supply. In infested areas other crops will have to come in to supplement farm income too. Chief among these crops will be small fruits and vegetables.

The 4-H Club will play a big role in the changes because it lies within our farm youth to realize the necessity of the changes which are certain to take place in North Carolina.

As an Extension worker, I feel that we hold the future of North Carolina agriculture in our hands, for the agriculture of tomorrow will depend on how well we of the Extension Service get our agricultural programs across to the youth of today.

MY FIRST SUMMER IN MY NEW POSITION

R. Harvey Morris Class of 1957

One week prior to graduation, I was debating which of two positions I would accept. After quite a bit of deliberation, and with only two days left before graduation, I chose to work with the Agricultural Extension Service as an assistant county agent in Bladen County.

Since serving in this position I find that I definitely made the right decision. The type of work, the people, and the organization with which I am working, all make everything pleasant and interesting.

Most of my activities are with the Farm and Home Development program. This program is a redirected and expanded phase of Agricultural Extension that works primarily with individual farm families. The purpose of the program is to help families in further developing their farms and homes by helping them to help themselves. This is made possible by careful planning with the family and the efficient utilization of their resources, such as land, labor, capital, and management. The real task in such a program is winning the family's confidence. Once this task is accomplished, progress is in sight.

Although I am working primarily with Farm and Home Development, I work with any assignment, task, or problem with which a county agent is confronted. Much of my time is consumed in the fields of entomology, pathology, farm planning and management, public affairs, and anything else that a "jack-of-all-trades" should know.

The job of Extension is education--the development of people through education. I wish that more and more well qualified men and women were available and willing to work with the Agricultural Extension Service. The Extension Service needs well qualified men and women to educate our farm families to insure better family living.

GRADUATE STUDY AT NORTH CAROLINA STATE COLLEGE

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Charles A. Jackson, Graduate Student Ornamentals

"What are you planning to do after you graduate?" Surely you have been asked this question many times. Were you prepared to answer it?

Perhaps you had a definite answer, or maybe you gave a quick answer without having given it much thought. Most of the boys are probably concerned about getting their military obligation behind them. Maybe some of the girls are considering marriage. Other seniors may be planning to get a job in the horticulture industry, while some may be looking forward to returning home to help with the family business.

It is true that all these things are worth careful consideration, but it is possible that you are overlooking an opportunity for advancement which might be yours.

You have probably guessed what that opportunity is by now, but if there is any doubt--it is Graduate School.

"Oh well, I have considered that," you may reply. But have you really given it the amount of consideration it deserves: Have you thought of the value of a graduate degree in your future, or have you thought of it as a hard job you wish to avoid at the present?

Last year I was confronted with the decision of what to do after graduation. Several alternatives were available. I discussed them with my faculty advisers and several men who were in business. All of them highly recommended that I enter Graduate School. The fact was pointed out to me that with the increasing number of people receiving Bachelor's degrees, advanced degrees would become more and more important in getting a job and advancing in a profession.

I chose to remain at North Carolina State College for my graduate work. The courses which I desired to take were offered here, and the Graduate School is known throughout the country for its high standards. Adequate facilities are available here for work leading to the Master of Science degree in all the specialized branches of agriculture.

The graduate student's program of study is planned to provide a comprehensive view of some major field of interest and to furnish the training essential for successful research in this field. The program of course work is selected with the object of making possible a reasonable mastery of the subject matter in a specialized field. Since there are many possible combinations of courses, the administration of graduate programs calls for personal supervision of each student's plan of work by a special advisory committee of the Graduate Faculty.

The courses taken by a graduate student should constitute a well rounded but unified plan of study. This is interpreted to mean that the program shall be divided between a major and a minor field.

The Department of Horticulture at North Carolina State College offers the Master of Science degree and the Professional degree, Master of Horticulture. Students applying for graduate

study in horticulture are expected to be well prepared in the basic sciences, with an undergraduate major in the field desirable but not necessary.

The department has one of the best physical plants in the South for training in horticulture. The new building, completed in 1952, contains adequate office, classroom, and laboratory space and the equipment necessary for a well rounded graduate program.

A new greenhouse range is available which contains ten separate compartments especially designed for research. A moder. and well equipped processing laboratory is located in the building with adjoining analytical and bacteriological laboratories. Nine cold storage compartments make possible extensive investigations dealing with the storage and handling of fruits, vegetables, and ornamentals. Field research problems are conducted on the student laboratory farm at Raleigh and at ten of the research stations located in the various geographical sections of the State.

The opportunities for employment after advanced training are many and varied. Some of them are teaching and research in state and privately endowed institutions; research positions with the USDA; Extension specialists and county agents; research and promotional work with food, chemical, and seed concerns; orchard, nursery and greenhouse supervisors; and food technologists and inspectors.

Make sure you do not overlook the opportunities graduate training holds for you. Seek more information about it. Postgraduate work could be the solution to your problem of what to do immediately after graduation.

LONG-RANGE PLANS IN HORTICULTURE

Fred D. Cochran, Head Department of Horticulture

During the fall and winter months the staff in the Department of Horticulture has been busy drawing up longrange plans. These plans are a part of the over-all college plans which are being done at the request of the Board of Higher Education. This has given us an opportunity to evaluate our program at present and to make recommendations that we feel will be more in line for future service to the people of North Carolina and to the Nation.

Similar to many other departments of horticulture through out the country, this department has four segments; Vegetable Crops, Fruit Crops, Ornamental Crops, and Fruit and Vegetable Processing. The teaching, research and Extension programs are housed together as a single department.

The horticultural staff has recommended that the name of the Department be changed to Horticultural Science, which is more in keeping with its expressed desire to be known as a plant science department with educational and research responsibilities in the production and marketing of horticultural crops. Its staff is made up of personnel trained in various fundamental disciplines, assembled as a team, with specialists in the areas of related interests. The Department functions to: (a) conduct basic and applied research in the horticultural field, and (b) disseminate information to students and to farm and related industries. Thus the Department may be more appropriately referred to as a commodity science department than as an applied science department.

The summary evaluation of the present status of horticulture in North Carolina may be, in part, expressed as follows. The production of horticultural crops is highly specialized, and for success is dependent on high yield and quality, improvement in marketing methods, and full use of best known scientific and technical development. In detailed studies of individual crops, it appears that the yields per acre in North Carolina are below those of most competing states, and in many cases the physical quality of the product is poor. Research and educational programs designed to emphasize yields per acre and quality should be extremely important to the industry as a whole. Associated with this problem are generally poor marketing practices. Improvement in the total marketing situation, which includes all post-harvest problems of packing. grading, handling and marketing, is necessary. North Carolina must work out a system to place large volumes of high quality products on the market at competitive prices. The State is in the marketing range of the large consuming centers in the East, such as Washington, Baltimore, Philadelphia, Pittsburgh, New York and Boston; and during its production seasons has full access to the rapidly developing markets to the south. The potential is great in both directions. There is a prominent place in the farm program in North Carolina at the present time for greater emphasis on horticultural crops.

Fruit and vegetable processing, until recently of very little importance in North Carolina, appears finally to be making real headway. The development of this industry in the State is one of the greatest potentials in North Carolina agriculture. The growth of the ornamental industries in nursery crops and commercial flower production has been rapid. North Carolina has gained prominence in this phase of horticulture. More than 4,000 acres of flowering bulb crops are grown. There are 600 registered nurserymen and the State leads all southern states in the production of flowers in greenhouses. The Department must develop its research and teaching program to foster continued growth of these industries.

Vegetable production in North Carolina represents the greatest segment of horticultural enterprises. The total annual commercial production of vegetables in the State amounts to more than 50 million dollars. Improvement of the marketing situation and the establishment of processing plants in the State could very easily increase the value of vegetable crops to more than 100 million dollars per year. Fruit crop production in the State is second to vegetable crops in monetary value and could likewise be increased rapidly if marketing conditions improved and processing plants are developed.

In developing instructional and research programs careful consideration should be given to the kind of agriculture that is served. Agriculture is made up of three major segments: those industries which supply the farmer; farming, including

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the production of crops and livestock; and those industries which process and handle the products of agriculture. Approximately 8 million persons are engaged in farming. An additional 6 million are producing supplies for and serving farmers; and another 9 million are processing and distributing products. Thus, about 23 million people out of the nation's 61 million labor force are in agriculture and related industries. With this information in mind, and at the same time being aware of reduced enrollments in agriculture, we must give serious consideration to the type of training and the type of research work in which the Department should be engaged. It would appear, therefore, that the Department should direct its activities in teaching and research toward agricultural science, agricultural technology, and agricultural business.

In the general areas of agricultural science and technology, the Department wishes to expand its production research, breeding and genetic studies, post-harvest handling and physiology, fruit and vegetable processing, and cooperate in market developments. From the studies that have been made on different horticultural crops, it would appear that a considerable amount of production research would be feasible in order to bring about higher yields and quality of product. Full benefits of efficient production are not realized unless it is followed with efficient post-harvest handling and marketing. Horticultural crops are quite perishable and are subject to mechanical damage. Studies on methods of packaging, storage and handling to maintain good, fresh quality are prerequisite

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to successful marketing. The diversity and importance of this area is such that extensive inter-departmental cooperation is required. The Horticulture Department plans to expand research in this area in cooperation with other related departments. Development of the full potential in horticulture is dependent upon solving the many marketing problems.

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The trends in the consumption of processed foods emphasize the importance of developing a strong teaching and research program in this area. There is a long-time trend toward the increased use of processed foods. The 80 million people currently living within a 500-mile radius of the boundaries of North Carolina consume annually 3.7 billion pounds of processed vegetables and 3.5 billion pounds of processed fruits. Projection of population and processed food consumption statistics indicates that the national requirement will be 60 percent greater by 1970. North Carolina has not kept pace with industrial developments in fruit and vegetable processing; however, interest is strong, and several plant operations have been developed recently in the State. The Department recommends that much greater emphasis be placed on research in this field. Such expansion will require new and intensive research in production of crops for processing, the development of new and improved products, basic and applied studies on product quality, and the determination of the nutritive value and consumer acceptance. The expanded program in processing would require more staff personnel, increased assistance, additional laboratories, large investments in

equipment, and additional operating funds. The great potential of this area of production and preservation to the economy of the State makes such investments well justified.

In submitting the long-range plans, a step-by-step program has been developed for additional personnel, additional staff personnel, graduate assistants, laboratories, classrooms, cold storage space, greenhouses, offices, research stations and the necessary equipment and supplies. The Department hopes that the facilities available in Kilgore Hall will be utilized for the expansion of horticultural activities in the future. By 1970 the Department has projected its needs to be 39 faculty members, 12 secretaries, 9 laboratory technicians, 12 field aides and 30 graduate assistants. In its future the Department must continue to discharge its present commitments in the areas of undergraduate and graduate instruction, research, and Extension; and to exercise imaginative leadership in guiding and stimulating the intellectual life of the public community that supports it.

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FAMILY AFFAIRS

M. Evans Gardner Professor of Horticulture

Two of our seniors, Frank R. Johnson, Jr., and Harry L. Neely, have made Phi Kappa Phi honors. We are especially happy to have two students receive this high honor in one year.

Iota Chapter of Pi Alpha Xi has been established at North Carolina State College. We have been working on this for several years and are glad that standards, which are high, have been reached.

The National Intercollegiate Flower Judging Contest will be held on the State College campus in April, 1958. The contest will be sponsored by Pi Alpha Xi, the Horticultural Club and the Department of Horticulture. We expect about twenty teams to participate and are busy making local arrangements. We are looking forward to meeting students and coaches from all over the United States. An interesting tour is being planned for our visitors.

A number of new members have joined the staff since our last Newsletter was published. Dr. Walter E. Ballinger comes to us from Michigan State University. He is a native of New Jersey and did his undergraduate work at Rutgers. His research will be concerned with nutrition of fruit crops. He is our most eligible bachelor.

Dr. Conrad Miller also comes to us from MSU, after receiving his BS and MS degrees from Virginia Tech. His research program is being designed to provide much needed data in the area of vegetable crops nutrition.

Dr. Maurice W. Hoover has, for the past five years, been engaged in fruit and vegetable research at the University of Florida and comes to us from Gainesville. He has done outstanding work in the processing of southern peas and sweet potatoes. Presently, he is building a piece of equipment to expedite his studies dealing with the dehydro method of freezing fruits and vegetables.

Professor L. J. Kushman has been transferred from his station at Meridian, Mississippi, to North Carolina State. He is a full-time Federal employee, so his move to State College only means a change in stations. He is a physiologist and will continue his investigations in the field of handling, transportation and storage of perishable crops. Professor Kushman will add much needed strength to our research program in his area of responsibility and emphasis to our cooperative agreements with the USDA.

Dr. Thomas F. Cannon will join the staff on February 1, 1958. Tommy is a graduate of North Carolina State College and had his Master's with us before going to Ohio State for his doctorate. His program will be developed in the area of floral crops; initially, nutritional studies with glads and carnations.

Everette Lewis, 1948, has been named Pender County "Young Man of the Year" for 1957 by the Burgaw Jaycees. After receiving his BS in horticulture, Everette accepted the

superintendency of our Horticultural Research Station in Henderson County. While there, and by special arrangements, he completed the requirements for his Master's degree in plant pathology. He is now back on his home farm in Pender County, which is about fifteen miles north of Wilmington.

Everette has pioneered in the production of certified strawberry plants which are virus and nematode-free. In addition to his farming operations, he is active in all phases of community life. He was a leader in forming the Long Creek Community Association, which is constructing a community center building. He was one of the founders and first president of the Carolina Strawberry Cooperative.

Bill Nesbitt, 1954, will enter Graduate School at the beginning of the spring semester in February, 1958. He received his commission in the Air Corps in 1954 and has been in service since that time. We are glad to have him back.

Much concern is being expressed about the low registration of students in the schools of agriculture in the landgrant colleges and universities. I think that we should be concerned, but I am not one to assume a fatalistic attitude in this regard. The pendulum has always swung back and forth, but it has never yet stopped in one position. Have we lost our patience and sense of perspective? Are we afraid to accept the challenge of fundamental research and excellence in teaching? Are we ready to surrender our ideology of free enterprise which has always characterized the field of horticulture? Are we thoroughly conscious of the revolutionary changes which

are taking place in the agriculture of North Carolina and the South, and the opportunities that are ours? If we muff this golden opportunity for advancement and service, we can only lay the failure on our own doorsteps.

As far as we are concerned here at North Carolina State College, our student enrollment in horticulture is increasing. This is good, and, I think, indicates a possible trend. Considerable interest is developing in double majors. We have had two in the past two years, Farm Crops-Horticulture, and two presently enrolled. One student has graduated in Landscape Architecture, a five-year curriculum, and the other graduated in Wildlife Management.